Appendix 1

Composition of CAMR MYCOBACTERIA MEDIUM

Stock solutions.	mg l ⁻¹	Stock Solutions	mg l ⁻¹
· ·		-tuta	
L- alanine L-arginine L-asparagine L-aspartic acid L-cysteine L-glutamine L-glutamic acid L-glycine L-histidine HCl L-isoleucine	Amino 100 100 2000 100 500 100 100 100 100	acids L-leucine L-lysine L-methionine L-phenylalanine L-proline L-serine L-threonine L-tryptophan L-tyrosine L-valine	100 100 100 100 100 100 100 50
$CaCl_2 \cdot 2H_2O$ $MgSO_4 \cdot 7H_2O$ NH_4VO_3 $ZnSO_4 \cdot 7 \cdot H_2O$ $CoCl_2 \cdot 6H_2O$ $CuSO_4 \cdot 5H_2O$ $MnCl_2 \cdot 4H_2O$	1norga 0.55 214 1.2 28.75 0.48 0.025 0.02	NiSO ₄ · 6H ₂ O FeSO ₄ · 7H ₂ O KH ₂ PO ₄ Na ₂ SO ₄	1.2 0.53 10 220 150 56
inositol thiamine HCl calcium -pantothenate coenzyme A	Vitamins a 2 2 2 2 0.1	and co-factors nicotinamide biotin DL-thioctic acid	1 0.1 0.1
ACES buffer NaHCO₃ glutathione (reduced) glycerol	10000 42 500 2 ml	sodium pyruvate a-ketoglutarate	2.0 1000 1000 2.0 ml

Stock solution formulations.

(CAMR MYCOBACTERIA MEDIUM).

g 1 ⁻¹	mg l ⁻¹	Stock Solutions	g l ⁻¹	mg l ⁻¹
21.4	55.5	Solution 6. sodium pyruvate	100	
2.875	117	Solution 7. a-ketoglutarate	100	
	47.6 2.5 2.0	Solution 8. inositol thiamine HCl calcium -		200 200
	121 52.6 0.5 ml	pantothenate nicotinamide biotin		200 100 10
1.0	0.5 ml	Solution 9. DL-thioctic acid ethanol	1.0	950 ml
1.0		Solution 10. coenzyme A	1.0	
20.0 1.0 1.0 1.0		Solution 11. haemin KOH	2.0 56	
1.0 1.0 1.0				
1.0 1.0 1.0				
1.0 1.0 1.0				
	21.4 2.875 1.0 1.0 20.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	55.5 21.4 117 2.875 47.6 2.5 2.0 121 52.6 0.5 ml 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	Solution 6. Sodium pyruvate	Solution 6. Sodium pyruvate 100

All solutions were prepared with high quality Millepore water.



Preparation of CAMR MYCOBACTERIA MEDIUM.

Solution	Quantity
 ACES buffer	10.0 g
KH₂PO₄	0.22 g
Na ₂ SO ₄	0.15 g
Millepore water	500 ml
Solution 2	10 ml
Solution 3	10 ml
Solution 5	100 ml
Solution 6	10 ml
Solution 7	10 ml
Solution 8	10 ml
Solution 9	0.1 ml
Solution 10	0.1 ml
L-cysteine HCl	0.5 g
Glutathione (reduced)	0.5 g
L-tyrosine	0.05 g
NaHCO ₃	0.042 g
Glycerol	0.2 ml
Solution 4	10 ml
	o 6.5 with 20% KOH
Solution 11	1 ml
Tween® 80	2.0 ml
Millepore water up to 1 litre	· ·
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Filter sterilise by passage through 0.07 μ m filter (Sartorius Ltd.)

The above CAMR medium has been refined and non-essential components omitted as below:-

Composition of CAMR Mycobacterium Medium

Chemical	g ľ¹		mg l ⁻¹
		Chemical	
L- alanine	0.1	CaCl₂ . 2H₂O	0.55
L-arginine	0.1	MgSO₄ . 7H₂O	214
L-asparagine	2.0	ZnSO₄ · 7 H₂O	28.75
L-aspartic acid	0.1	CoCl ₂ · 6H ₂ O	0.48
L-glutamic acid	0.1	CuSO ₄ · 5H ₂ O	0.025
L-glycine	0.1	$MnCl_2 \cdot 4H_2O$	0.02
L-isoleucine	0.1	FeSO₄ · 7H₂O	10
L-leucine	0.1	KH₂PO₄	222
L-serine	0.1	NaHCO ₃	42
L-phenylalanine	0.1		
Sodium pyruvate	1.0	Biotin	0.1
ACES buffer	10	Glycerol	2.0 ml
Tween® 80	2.0		

ACES buffer = N-[Carbamoylmethyl]-2-aminoethanesulfonic acid

PCT/GB00/00760

Stock solution formulations

Stock solutions.	g t ¹	mg l ⁻¹
Solution 1. CaCl ₂ . 2H ₂ O MgSO ₄ . 7H ₂ O ZnSO ₄ · 7 H ₂ O	21.4 2.875	55.5
$\frac{\text{Solution 2}}{\text{CoCl}_2 \cdot 6\text{H}_2\text{O}}$ $\frac{\text{CuSO}_4 \cdot 5\text{H}_2\text{O}}{\text{MnCl}_2 \cdot 4\text{H}_2\text{O}}$ $\frac{\text{conc. HCl}}{\text{Conc}}$		47.6 2.5 2.0 0.5 ml
Solution 3 L- alanine L-arginine L-asparagine L-aspartic acid L-glutamic acid L-glycine L-isoleucine L-leucine L-phenylalanine L-serine	1.0 1.0 20.0 1.0 1.0 1.0 1.0 1.0	
Solution 4. sodium pyruvate	100	
Solution 5. FeSO₄ · 7H₂O Conc. HCl	1.0	0.5 ml
Solution 6 Biotin		10

All solutions were prepared with high quality Millipore water.

Preparation of CAMR MYCOBACTERIA MEDIUM.

Solution	Quantity
ACES buffer	10.0 g
KH₂PO₄	0.22 g
Millipore water	500 ml
Solution 1	10 ml
Solution 2	10 ml
Solution 3	100 ml
Solution 4	10 ml
Solution 6	10 ml
NaHCO3	0.042 g
Glycerol	2 ml
Solution 5	10 ml

Adjust pH to 6.5 with 20% KOH

Tween® 80

2.0 ml

Millipore water up to 1 litre

Filter sterilise by passage through 0.07 μ m filter (Sartorius Ltd.)